

ABSTRACT OF THE DISCLOSURE

the production of a desired very high purity permeate

A membrane process and apparatus are described for

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a multiple stage membrane process wherein in a primary stage a process feed gas mixture is provided to a primary membrane separator unit comprising relatively high intrinsic membrane having a permeability to provide an intermediate permeate gas and a retentate gas, and providing the intermediate permeate in a secondary stage to secondary membrane а separator unit comprising a membrane having a relatively how_intrinsic permeability, to produce therefrom a very high purity permeate gas product.